

ABSTRACT OF THE DISCLOSURE

5 A resorbable interbody fusion device for use in  
spinal fixation is disclosed. The device is composed of  
25-100% bioresorbable or resorbable material. The  
interbody fusion device of the invention can be in any  
convenient form, such as a wedge, screw or cage.  
Preferably, the resorbable device of the invention is in  
the shape of a tapered wedge or cone, which further  
10 desirably incorporates structural features such as  
serrations or threads better to anchor the device in the  
adjoining vertebrae. The preferred device further  
comprises a plurality of peripheral voids and more  
desirably a central void space therein, which may  
15 desirably be filled with a grafting material for  
facilitating bony development and/or spinal fusion, such  
as an autologous grafting material. As the preferred  
material from which the resorbable interbody fusion device  
is manufactured is most likely to be a polymer that can  
20 produce acidic products upon hydrolytic degradation, the  
device preferably further includes a neutralization  
compound, or buffer, in sufficiently high concentration to  
decrease the rate of pH change as the device degrades, in  
order to prevent sterile abscess formation caused by the  
25 accumulation of unbuffered acidic products in the area of  
the implant.

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